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tungstic acid ph zirconia catalyst

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Synthesis of solid superacid of tungsten oxide supported on zirconia and its catalytic action for

MHino, K Arata - Journal of the Chemical Society, Chemical Communications, 1988 - [xlink.rsc.org](#)... The catalyst was active for butane isomerisation at ... e. tungsten oxide combines with zirconium oxide to ... by the kneading method with tungstic acid (H<sub>2</sub>WO<sub>4</sub>) which ...

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... -cracking of n-octane on Pt/WO<sub>42</sub>-ZrO<sub>2</sub> and Pt/SO<sub>42</sub>-ZrO<sub>2</sub> Effect of Pt load on catalyst ...

JM Grau, JC Yori, JM Parera - Applied Catalysis A, General, 2001 - Elsevier

... prepared with ammonium metatungstate or tungstic acid, being these ... obtained by hydrolysis of zirconium oxychloride (Strem ... ammonium hydroxide up to pH=10, then ...

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Influence of the tungsten oxide precursor on WO<sub>x</sub> ZrO<sub>2</sub> and Pt WO<sub>x</sub> ZrO<sub>2</sub> properties

SR Vaudagna, RA Comelli, NS Figoli - Applied Catalysis A, General, 1997 - Elsevier

... by incipient wetness impregnation of dried zirconium hydroxide with ... preparation of samples ITE, a tungstic acid solution (H<sub>2</sub>WO<sub>4</sub> ... ppm W and its initial pH= 11 was ...

Cited by 32 - Related articles - Web Search - All 4 versions

Catalytic incineration of organic compounds

PH Nguyen, EW Stern, M Deeba, PL Burk - US Patent 5,283,041, 1994 - [freepatentsonline.com](#)

... as ammonium hydroxide to obtain a pH of 8 ... used if a core material comprising zirconium oxide and ... tin bromide, tin chloride, tungstic acid, ammonium paratungstate ...

Cited by 8 - Related articles - Web Search - All 7 versions

n-Butane isomerization on Pt/WO<sub>3</sub>-ZrO<sub>2</sub>: effect of the Pt incorporation

JC Yori, CL Pleck, JM Parera - Applied Catalysis A, General, 1999 - Elsevier

... Zirconium oxide ZrO<sub>2</sub> , obtained by calcination of Zr(OH) ... solution was maintained for 7 days at pH=6. The ... form of an ammoniacal solution of tungstic acid (H<sub>2</sub>WO<sub>4</sub> ...

Cited by 30 - Related articles - Web Search - All 4 versions

Zirconium hydroxide supported metal and heteropolyacid catalysts

SL Soied, GB McVicker, S Niseo, WE Gates - US Patent 5,391,532, 1995 - [freepatentsonline.com](#)

... product of phosphoric or silicic acid with tungstic acid. ... tungstophosphoric acid and 12-tungstosilicic acid are commercially ... may be precipitated, at a pH of 9 ...

Cited by 6 - Related articles - Web Search - All 7 versions

Zirconia-supported phosphotungstic acid as catalyst for alkylation of phenol with benzyl alcohol - ► 203,199,213,48 [PDF]

BM Devassy, GV Shanbhag, F Lefebvre, W Böhringer, ... - Journal of Molecular Catalysis. A, Chemical, 2005 - Elsevier

... zirconium hydroxide with a solution of tungstic acid dissolved in ... solution, heteropolyanions are not stable at pH &gt; 1 as ... free and acts as Brönsted acid sites. ...

Cited by 5 - Related articles - Web Search - All 4 versions

## HYDROGENATIVE CONVERSION CATALYSTS

DA Young - US Patent 3,928,233, 1975 - freepatentsonline.com

... in aqueous ammonium carbonate at a pH of about ... to form the corresponding molybdenum and zirconium or titanium ... to precipitate molybdc or tungstic acid and the ...

Cited by 6 - Related articles - Web Search - All 2 versions

### Silica supported metal and heteropolyacid catalysts

SL Soled, GB McVicker, S Miseo, WE Gates - US Patent 5,420,092, 1995 - freepatentsonline.com

... product of phosphoric or silicic acid with tungstic acid ... tungstophosphoric acid

and 12-tungstosilicic acid are commercially ... may be precipitated, at a pH of 9 ...

Cited by 5 - Related articles - Web Search - All 4 versions

### EPOXIDATION PROCESS C

CM Gable - US Patent 2,870,171, 1959 - Google Patents

... meters per gram, or the silica-magnesia or silica-zirconia gel cracking ... Catalyst

Support ... of aqueous sodium hydroxide to 1 mole of tungstic acid (pH of mixture ...

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Key authors: K Arata - J Yori - M Hino - C Chang - J Parera

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